LIST OF NEW MEMBERS AND ASSOCIATE MEMBERS

James M. Adams	Joseph M. Conny	Charles S. Tarrio
John T. Armstrong	Keith R. Lykke	Gregory B. Vasquez
Karen H. Brown	Richard B. Mindek	Hockin H.K. Xu
Eric J. Cockayne	Yoshihiro Ohno	

NIST SIGMA XI CHAPTER PRESIDENTS

Hans J. Oser	1976-77	Johanna M. H.	
John W. Rowen	1977-78	Levelt Sengers	1989-90
H. Steffen Peiser	1978-79	Kenneth G. Kreider	1990-91
Karl G. Kessler	1979-80	Ronald G. Rehm	1991-92
Theodore V. Vorburger	1980-81	Edgar S. Etz	1992-93
Barbara F. Howell	1981-82	Barbara C. Levin	1993-94
Edward L. Brady	1982-83	Harry L. Rook	1994-95
James F. Schooley	1983-84	W. Robert Kelly	1995-96
Anna C. Fraker	1984-85	Robert D. Shull	1996-97
Chris E. Kuyatt	1985-86	Dale E. Newbury	1997-98
Lawrence H. Bennett	1986-87	Daniel W. Lozier	1998-99
Howard E. Sorrows	1987-88	William R. Ott	1999-2000
Marilyn E. Jacox	1988-89		

ACKNOWLEDGMENTS

MANY THANKS TO:

Bill Ott, Bob Fletcher, Marilyn Jacox, Steffen Peiser, Daniel Lozier, Lorna Sniegoski, Marcia Holden, Charles Ehrlich, Dale Newbury, Brian Toby, John Maurey, Cathy O'Connell, Gerry Blessing, Heather Chen-Mayer, Edgar Etz, and Bob Shull for their generous contributions to the Post-Doctoral Poster Presentation (PPP) refreshments;

John Kasianowicz, Edgar Etz, Dale Newbury, Mike Postek, John Cahn, Bob Shull, Bill Ott, Michael Moldover, Geoffrey McFadden for serving as **PPP judges**;

AND

Julia Chan, John Henry Scott, Charles Ehrlich, Dale Newbury, Bob Fletcher, Bob Shull, Bill Ott, John Small for serving as Montgomery Area Science Fair Sigma Xi Judges, Gerry Blessing, Bert Coursey, Cathy O'Connell, and Bradley Damazo as Frederick County Science Fair judges.

The Willow Tree Inn, Monday, May 15, 2000

6:00pm Social Hour (Cash Bar)

7:00pm Dinner 7:45pm Program

Introduction of Current Officers William R. Ott

Remarks by the Incoming President Robert A. Fletcher Introduction of New Members Angela R. Hight Walker

Introduction of New Officers Charles D. Ehrlich

Presentation of Awards



Outstanding Teacher Awards

Debra Smrchek

The Academy of the Holy Cross

Ann Nichols

Jerome Feldman

Dale E. Newbury

Gerald V. Blessing

Good Counsel High School



Measurement Science Awards for **High School Science Fairs**

Montgomery County:

Frederick County: Elaine Pei-San Gee **Elizabeth Epstein**

Frederick High School Montgomery Blair High School



Outstanding Post-doctoral

Edgar S. Etz.

Presentation Awards

Eric W. Landree

Surface and Microanalysis Science Division, CSTL



Young Scientist Award for Excellence in Scientific Research

Marilyn E. Jacox

Gregory E. Poirier

Process Measurements Division, CSTL



Award for Outstanding Service in Support of Research Scientists

Marilyn E. Jacox

Douglas H. Blackburn

Ceramics Division, MSEL (retiree)



Award for Outstanding Service to the NIST Sigma Xi Chapter

Marilyn E. Jacox

Dale E. Newbury

Surface and Microanalysis Science Division, CSTL

Introduction of Speaker Dr. Janet Abbate William R. Ott

Sigma Xi, The Scientific Research Society National Institute of Standards and Technology Chapter



Featured Speaker:

Dr. Janet Abbate Dept. of History University of MD

THE HISTORY OF THE INTERNET

Since the late 1960s the Internet has grown from a single experimental network serving a dozen sites in the U.S. to a network of networks linking millions of computers worldwide. How this technological revolution happened is a story not only about computer science and information technology, but also the people and the social and cultural factors that influenced the Internet's design and use. It is a twisting tale of inspiration, collaboration, conflict, and serendipity.

Willow Tree Inn

Monday, May 15, 2000

LIST OF 1999-2000 SPEAKERS

May 15, 2000

The History Of The Internet

Janet Abbate, Department of History, University of MD

April 12, 2000

Symposium: 1999 Presidential Early Career Awards for Scientists and Engineers

What's in the Air? Tools for Trace Gas Analysis

Pamela Chu, NIST Chemical Sciences and Technology Laboratory

Climatic Impacts on the Pacific Northwest

Nathan Mantua, NOAA/University of Washington

Excited about Excitons: the Color of Buckyballs

Eric Shirley, NIST Physics Laboratory

Tomorrow's Forecasts for Lakes, Estuaries, and the Coastal Ocean

John G.W. Kelley, NOAA Coast Survey Development Laboratory

April 25, 2000

Cholesterol and Coronary Artery Disease

Howard Kruth, MD, National Heart, Lung, and Blood Institute, NIH

March 2, 2000

Computational Chemistry: Not Theory, Not Experiment. Is It Science?

Karl Irikura, Physical and Chemical Properties Division, NIST

January 27, 2000

The Disputed Discovery of Element 43 (Technetium)

John T. Armstrong, Surface and Microanalysis Division, NIST

December 8, 1999

The National Gem Collection - Science and Lore

Jeffrey E. Post, Curator-in-Charge, Mineral Collection, Smithsonian Institution

November 10, 1999

Symposium: 1999 Sigma Xi Young Scientist Award Winners

Multilayer Materials: Tools for Studying the Thermodynamics of Interfaces

Daniel Josell, NIST Materials Science and Engineering Laboratory Optical Forces

Kristian Helmerson, NIST Physics Laboratory

October 8, 1999

The Art and Science of the Motorcycle

Charles M. Falco, Chair of Condensed Matter Physics, University of Arizona

Sept. 23, 1999

Why Einstein Would Love Spaghetti in Fundamental Physics

Sylvester James Gates, Jr., John S. Toll Professor of Physics, Physics Department, University of Maryland

OFFICERS AND COMMITTEES

	1999-2000		2000-2001	
Executive Committee President President-Elect Secretary Treasurer Past-president	William R. Ott (2000) Robert A. Fletcher (2000) H. Heather Chen-Mayer (2001) Alan H. Cookson (2001) Daniel W. Lozier (1999)		Robert A. Fletcher (2001) Bert M. Coursey (2001) H. Heather Chen-Mayer (2001) Alan H. Cookson (2001) William R. Ott (2000)	
Nominations Committee	Charles D. Ehrlic Richard J. Fields (2000) Fern Hunt (2001) Robert D. Vocke (2000)	ch (2001, Chair) Andrew J. Fowell (2002) Laurie E. Locascio (2002)	Charles D. E Thomas E. Gills(2003) Fern Hunt (2001) Michael P. Casassa (2003)	hrlich (2001, Chair) Andrew J. Fowell (2002) Laurie E. Locascio (2002)
Admissions Committee	Angela R. Hight Wa Michael R. Moldover (2000) Magdalena Navarro (2001) George G. Harman (2002)	alker (2000, Chair) Ellyn Beary (2001) Anna C. Fraker (2002)	Ellyn Bea Anna C. Fraker (2002) Lisa R. Karam (2003) John R. Rumble Jr. (2003)	ry (2001, Chair) George G. Harman (2002) Magdalena Navarro (2001)
Education Committee (Open to All Members and Associate Members)	Gerald V. Bles John Blendell Carol A. Handwerker W. Robert Kelly Marian F. McCurley Dale E. Newbury Robert D. Shull	ssing (Chair) Julia Y. Chan Jack J. Hsia John R. Maurey Robert L. Myklebust Catherine D. O'Connell John A. Small	Angela R. Hi Gerald V. Blessing Julia Y. Chan Jack J. Hsia John R. Maurey Dale E. Newbury Robert D. Shull	ght Walker (Chair) John Blendell Carol A. Handwerker W. Robert Kelly Robert L. Myklebust Catherine D. O'Connell John A. Small
Program Committee	Robert A. Flet William R. Ott Dale E. Newbury	cher (Chair) Daniel W. Lozier Robert D. Shull	Bert M. Cour Robert A. Fletcher Daniel W. Lozier Robert D. Shull	sey (Chair) William R. Ott Dale E. Newbury
Awards Committee	Marilyn E. Jacox (Chair) Kenneth Kreider Daniel Lozier Walter J. Stevens		Marilyn E. Jacox (Chair) (Members to be appointed)	
Postdoctoral Presentation Committee (Open to All Members and Associate Members)	Barbara C. Le David S. Bright Jack J. Hsia Dale E. Newbury	evin (Chair) Robert A. Fletcher W. Robert Kelly	Barbara (David S. Bright Jack J. Hsia Dale E. Newbury	C. Levin (Chair) Robert A. Fletcher W. Robert Kelly